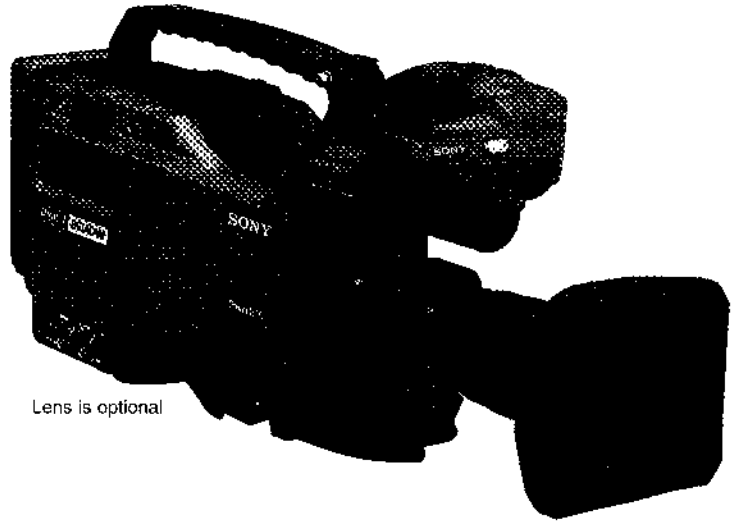


# DVW-707(NTSC)/707P(PAL)

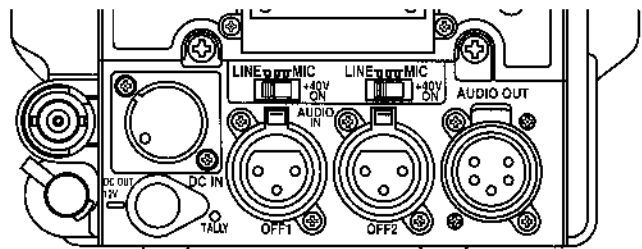
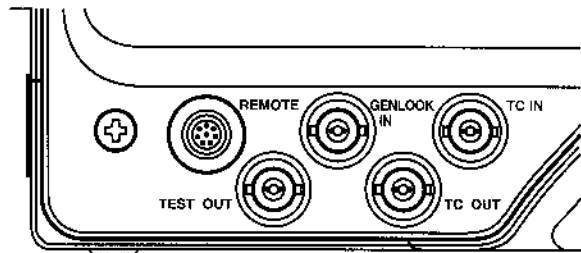
**Digital BETACAM**

## Digital BETACAM One Piece Camcorder

- Superb picture and high sound quality of Digital BETACAM format
- 12-bit A/D converter
- High performance ADSP (Advanced Digital Signal Processing)camcorder
- Incorporates digital signal processing camera circuit with 3-chip 2/3-inch Power HAD IT CCD (with 410,000(NTSC)/470,000(PAL) picture elements) in the camera section and the Digital BETACAM recording technology in the VTR section to cover most quality conscious EFP applications
- Multi Matrix Function for the color correction.
- Turbo Gain feature which enables to raise the gain level to +48 dB
- Auto Tracing White Balance for adjusting the white balance as lighting conditions change.
- TruEye™ Process for faithful color reproduction
- Selectable Gamma Curve for more natural tonal reproduction.
- Color Temperature Control which allows to change the color balance of the picture to make it warmer or colder.
- Assignable Button for ATW, RET, REC, Turbo Gain and other functions
- Setup Card system to store all the setup parameters made via the menu system from the camera head
- Internal Light System powered from the camcorder's lithium-ion battery.
- Stereo Audio Output from the 5-pin XLR connector.
- Electronic Shutter Speeds:  
NTSC: 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000(s)  
PAL: 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000(s)
- Super Innovative Clear Scan (NTSC: 60.0 to 10156 Hz)(PAL:50.0 to 10101 Hz) function for shooting computer displays
- Enhanced Vertical Definition System (EVS) for vertical resolution of 450 (NTSC), 530 (PAL)TV lines
- Shot Data Recording of the date and time of shooting, shot ID, cassette number and so on.
- LCD panel showing a wide range of status and diagnostic displays.
- Field playback capability of full color video and audio without an adaptor
- Basic camera control from RM-150 Remote Control Unit
- Compact and lightweight of approx.7kg including a viewfinder, battery, cassette, microphone and lens
- Low power consumption of 29 W
- 40 minutes of recording time using the S-cassette
- Virtually no flare viewfinder with quick start CRT provides high horizontal resolution of 600 TV lines

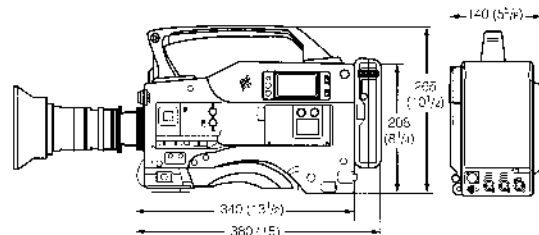


Lens is optional



- Supplied accessories:
  - Microphone (1)
  - Shoulder belt (1)
  - Lens cap (1)
  - XLR cap (4)
  - Maintenance manual (1)
  - Operation manual (1)
- Optional accessories:
  - BVF-V10/CE 1.5-inch 4:3 B/W Viewfinder (1)
  - BKDW-701 Servo Filter Unit
  - BKDW-702 SDI Output Board
  - BKDW-703 Picture Cache Board
  - CA-701 Camera Adapter
  - CA-702/P Camera Adapter
  - CA-755/P Camera Adapter
  - AC-DN1 AC Adapter
  - AC-DN2A AC Adapter
  - BSC-1 Pack Setup Card
  - BVF-VC10W 1.95-inch 16:9 Color Viewfinder
  - WRP-860A Wireless Microphone Receiver
  - WRP-855A Wireless Microphone Receiver (adaptor required)

### Dimensions



Unit: mm (inch)

# Specifications

	DVW-707	DVW-707P
<b>Mass</b>	Approx. 5.0 kg (11 lb. 1 oz)	
<b>Operating mass</b>	Approx. 7.0 kg (15 lb. 7 oz)	
<b>Power requirements</b>	DC 12 V +5.0/-1.0 V	
<b>Power consumption</b>	29 W	
<b>Operating temperature</b>	0 °C to +40 °C (+32 °F to +104 °F)	
<b>Storage temperature</b>	-20 °C to +80 °C (-4 °F to +140 °F)	
<b>Humidity</b>	25 % to 85 % (relative humidity)	
<b>Continuous operating time</b>	Approx. 135 min (with BP-L60A) Approx. 205 min (with BP-L90A)	
<b>Genlock video input</b>	BNC(1), 1.0 Vp-p, 75 Ω	
<b>Time code input</b>	BNC(1), 0.5 to 18 Vp-p, 10 kΩ	
<b>Audio input (CH-1/2)</b>	XLR 3-pin(2), -60 dBm/+4 dBm selectable, high impedance, balanced	
<b>Mic input</b>	XLR 3-pin(2), -60 dBm/+4 dBm selectable, high impedance, balanced	
<b>Video output</b>	BNC(1), 1.0 Vp-p, 75 Ω	
<b>Video test output</b>	BNC(1), 1.0 Vp-p, 75 Ω	
<b>Time code output</b>	BNC(1), 1.0 Vp-p, 75 Ω	
<b>Earphone</b>	Mini jack	
<b>Audio output (CH-1/2)</b>	XLR-5-pin male(stereo)	
<b>Lens</b>	12-pin	
<b>Remote</b>	8-pin	
<b>Light</b>	2-pin, DC 12 V, max. 50 W	
<b>DC input</b>	XLR 4-pin (for the optional AC-550/550CE)	
<b>DC output</b>	4-pin (for wireless microphone receiver), DC 12V	
<b>Camcorder adapter</b>	40-pin	
<b>General</b>		
<b>Recording format</b>	Digital BETACAM	
<b>Tape speed</b>	96.7mm/s	
<b>Playback/Recording time</b>	Max. 40 min. with BCT-D40 cassette	
<b>Fast forward time</b>	Less than 6 min. with BCT-D40 cassette	
<b>Rewind time</b>	Less than 5 min. with BCT-D40 cassette	
<b>Recommended tape</b>	Sony Digital Betacam S cassette, BCT-D6/D12/D22/D32/D40 Series	
<b>Sampling Frequency</b>	Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz	
<b>Quantization</b>	10 bit/sample	
<b>Error correction</b>	Reed-Solomon code	
<b>Error concealment</b>	Adaptive three dimensional	
<b>Digital video performance</b>		
<b>Bandwidth</b>	Y: 5.75 MHz +/-0.5 dB, R-Y/B-Y: 2.75 MHz +/-0.5 dB	
<b>S/N ratio</b>	More than 82 dB	
<b>k-factor(2T pulse)</b>	Less than 1 %	
<b>Linearity</b>	Less than 2 %	
<b>Y/R-Y/B-Y delay</b>	Less than 15 ns	
<b>Digital audio performance</b>		
<b>Sampling frequency</b>	48 kHz (synchronized with video)	
<b>Quantization</b>	20 bits/sample	
<b>A/D and D/A quantization</b>	16 bits/sample	
<b>Frequency response</b>	20 Hz to 20 kHz +0.5 dB/-0.8 dB	
<b>Dynamic range</b>	More than 85 dB(emphasis ON)	
<b>Distortion (at 1 kHz, emphasis ON, reference level)</b>	Less than 0.08 %	
<b>Crosstalk (at 1 kHz, reference level)</b>	Less than -70 dB	
<b>Wow and flutter</b>	Below measurable limit	
<b>Head room</b>	20 dB (ex-factory setting)	
<b>Emphasis (ON/OFF selectable)</b>	T1=50 μs, T2=15 μs	
<b>Analog audio performance (Cue track)</b>		
<b>Frequency response</b>	100 Hz to 12 kHz +/-3 dB	
<b>S/N ratio</b>	More than 50 dB at 3 % distortion level	
<b>Distortion</b>	Less than 1.5 % (T.H.D at 1 kHz reference level)	
<b>Wow and flutter</b>	Less than 0.2 %	
<b>Pickup device</b>	3-chip 2/3-inch Power HAD IT CCD	
<b>Picture elements</b>	811(H) x 508(V)	795(H) x 596(V)
<b>Optical system</b>	F1.4 prism system	
<b>Built-in filters</b>	1: CLEAR 2:5600 K + 1/8 ND 3:5600 K 4:5600K + 1/64 ND	
<b>Shutter speed</b>	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000(s)	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000(s)
<b>Lens mount</b>	Special bayonet mount	
<b>Sensitivity (2000 lx with F8.0, 89.9 % reflective)</b>	F10.0(Typical) Equivalent to ISO 600 or more	
<b>Minimum illumination</b>	Approx. 0.15 lx(F1.4 lens, +48 dB Turbo Gain)	
<b>Smear level</b>	-125 dB	
<b>S/N ratio</b>	65 dB (typical)	63 dB (typical)
<b>Vertical resolution</b>		
<b>Without EVS</b>	400 TV lines	480 TV lines
<b>With EVS</b>	450 TV lines	530 TV lines
<b>Registration</b>	0.05 % (All zones, without lens)	
<b>Geometric distortion</b>	Below measurable level (Without lens)	
<b>Warm-up time</b>	2 sec.	
<b>Modulation depth at 5 MHz</b>	More than 55 %	
<b>CRT</b>	1.5-inch monochrome	
<b>Controls</b>	BRIGHT control, CONTRAST control, PEAKING control, TALLY, ZEBRA, DISPLAY switches	
<b>Horizontal resolution</b>	600 TV lines	
<b>Microphone</b>	Ultra-directional (Detachable)	